MITSUBISHI

GT16 Backlight for 12.1"/10.4" GOT

User's Manual

GT16-80SLTT
GT16-70SLTT
GT16-70VLTT
GT16-70VLTTA
GT16-70VLTN

Thank you for purchasing the GOT1000 Series.

Prior to use, please read both this manual and detailed manual thoroughly to fully understand the product.

MODEL	GT16-80SLTT-U
MODEL CODE	1D7M83
IB(NA)-0800428-D(1109)MEE	

GRAPHIC OPERATION TERMINAL
GOT1000

●SAFETY PRECAUTIONS●

(Always read these precautions before using this equipment.)

Before using this product, please read this manual and the relevant manuals introduced in this manual carefully and pay full attention to safety to handle the product correctly.
The precautions given in this manual are concerned with this product.
In this manual, the safety precautions are ranked as "DANGER" and "CAUTION".

⚠ DANGER	Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.
⚠ CAUTION	Indicates that incorrect handling may cause hazardous conditions, resulting in medium or slight personal injury or physical damage.

Note that the ⚠ CAUTION level may lead to a serious accident according to the circumstances.
Always follow the precautions of both levels because they are important to personal safety.
Please save this manual to make it accessible when required and always forward it to the end user.

[BACKLIGHT REPLACEMENT PRECAUTIONS]

⚠ DANGER

- Make sure to externally shut off all phases of GOT power supply (when GOT is connected via the bus type connection, make sure to shut off all phases of PLC CPU power supply as well) and remove the GOT from the control panel before backlight replacement.
  If all phases are not shut off, it may cause an electric shock.
  If backlight is replaced with the GOT on the control panel, the GOT may drop off, resulting in injuries.

⚠ CAUTION

- Make sure to wear gloves during backlight replacement.
  Failure to do so may cause injuries.
- Make sure to start the backlight replacement 5 or more minutes after power off of the GOT.
  Failure to do so may cause burn injuries as the old backlight holds heat for a while.

[STARTUP AND MAINTENANCE PRECAUTIONS]

⚠ CAUTION

- Before handling the GOT, make sure to touch a grounded metal object to discharge the static electricity from the human body.
  Failure to do so may cause the GOT to fail or malfunction.

[DISPOSAL PRECAUTIONS]

⚠ CAUTION

- Dispose of this product as industrial waste.

[TRANSPORTATION PRECAUTIONS]

⚠ CAUTION

- Make sure to transport the GOT main unit and/or relevant unit(s) in the manner they will not be exposed to the impact exceeding the impact resistance described in the general specifications of the GT16 User's Manual, as they are precision devices.
  Failure to do so may cause the unit to fail.
  Check if the unit operates correctly after transportation.

Manuals

The following shows manuals relevant to this product.

Detailed Manual

Manual name	Manual number (Model code)
GT16 User's Manual (Sold separately)	SH-080778ENG (1D7M88)

Relevant Manuals

For relevant manuals, refer to the PDF manuals stored in the CD-ROM for the drawing software used.

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Packing List

After unpacking the box, check that the following products are included.

Model	Product	Quantity
GT16-80SLTT GT16-70SLTT GT16-70VLTT GT16-70VLTTA GT16-70VLTN	Backlight	1

1. OVERVIEW

This User's Manual describes GT16 backlight for 12.1"/10.4" GOT (hereinafter referred to as the backlight).
For applicable GOTs, refer to GT16 User's Manual.

Product	Model	Description	GOT
Backlight	GT16-80SLTT	For 12.1" TFT (SVGA) of high intensity and wide angle view	GT1685M-S
	GT16-70SLTT	For 10.4" TFT (SVGA) of high intensity and wide angle view	GT1675M-S
	GT16-70VLTT	For 10.4" TFT (VGA) of high intensity and wide angle view	GT1675M-V*1
	GT16-70VLTTA	For 10.4" TFT (VGA) of high intensity and wide angle view	GT1675M-V*2
	GT16-70VLTN	For 10.4" TFT (VGA)	GT1675-VN GT1672-VN

*1 Function version C or earlier
*2 Function version D or later

2. SPECIFICATIONS

The following shows the performance specifications of the backlight.
The general specifications of the backlight are the same as those of the GOT.
For the general specifications of the GOT, refer to GT16 User's Manual.

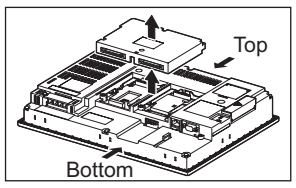
Item	Specifications				
	GT16-80SLTT	GT16-70SLTT	GT16-70VLTT	GT16-70VLTTA	GT16-70VLTN
Type	Cold cathode tube backlight				
Life	50,000h or more (Operating ambient temperature: 25℃)				
Weight	0.015kg (0.033lb)	0.008kg (0.018lb)		0.010kg (0.022lb)	0.012kg (0.026lb)

3. BACKLIGHT REPLACEMENT

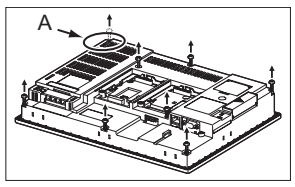
3.1 Preparing for Replacement

The GOT includes the backlight for the liquid crystal display panel.
The backlight intensity decreases with time.
Replace the backlight when the display section becomes dark due to the decreased intensity and the picture is unclear.
The following shows the procedures for replacing the backlight.

1) Turn off the GOT.
2) Disconnect the power supply cable and the communication cable. Remove the GOT from the control panel.
3) Remove the right extension unit cover of the GOT.
   Remove an extension unit, including a bus connection unit, if it is mounted.



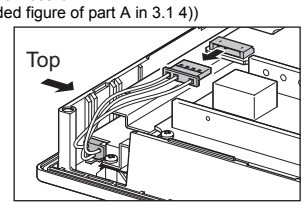
4) Remove eight fixing screws on the GOT rear face with a screwdriver.



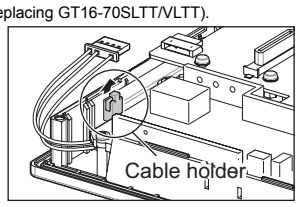
3.2 Replacing Backlight

(1) GT16-80SLTT, GT16-70SLTT, GT16-70VLTT

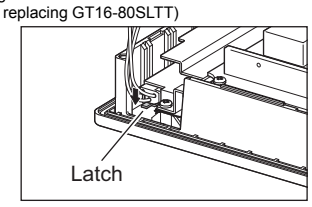
1) Remove the cable connector of the backlight from the connector of the GOT board.
   (Expanded figure of part A in 3.1 4))



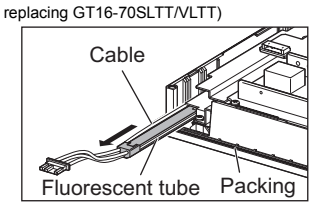
When replacing the GT16-70SLTT/70VLTT, remove the cables from the cable holder.
(When replacing GT16-70SLTT/VLTT).



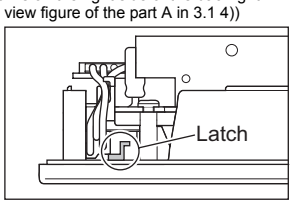
2) Press the backlight fixing latch (black) toward the direction of the following arrow with the screwdriver or others, and pull out the backlight to the left.
   Pull out the backlight so that the backlight does not hit the packing.
   (When replacing GT16-80SLTT)



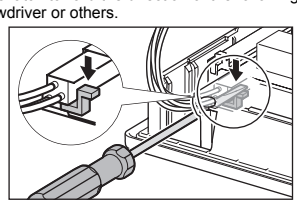
(When replacing GT16-70SLTT/VLTT)

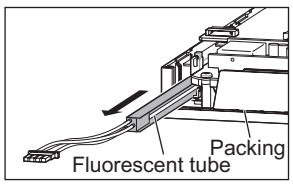


The latch is on the right side of the backlight.
(Edge-on view figure of the part A in 3.1 4))



Press the latch toward the direction of the following arrows with the screwdriver or others.

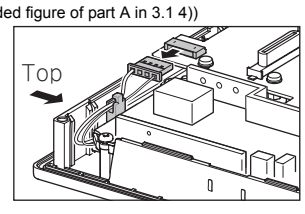




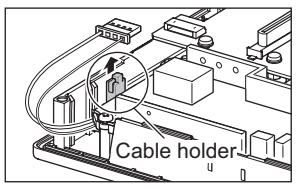
3) Install a new backlight in the reverse procedure of removal.
   When inserting a new backlight into the backlight replacement hole of the GOT, make sure not to damage the sheaths of the cables.
   Insert the backlight until it is fixed by the latch (black).
   Assemble the case in the reverse procedure of disassembly.
   (Tighten the fixing screws on the GOT rear face with a torque of 0.36 to 0.48 N•m).
   When installing the case, make sure that the cables are not stuck between the case and the GOT.

(2) GT16-70VLTN

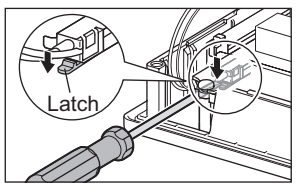
1) Remove the cable connector of the backlight from the connector of the GOT board.
   (Expanded figure of part A in 3.1 4))

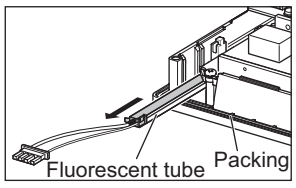


Remove the cables from the cable holder.



2) Press the backlight fixing latch (black) toward the direction of the following arrow with the screwdriver or others, and pull out the backlight to the left.
   Pull out the backlight so that the backlight does not hit the packing.

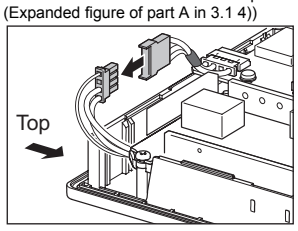




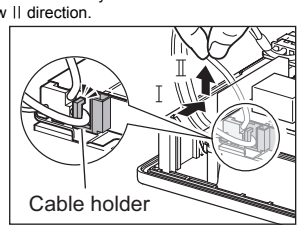
3) Install a new backlight in the reverse procedure of removal.
   When inserting a new backlight into the backlight replacement hole of the GOT, make sure not to damage the sheaths of the cables.
   Insert the backlight until it is fixed by the latch (black).
   Assemble the case in the reverse procedure of disassembly.
   (Tighten the fixing screws on the GOT rear face with a torque of 0.36 to 0.48 N•m).
   When installing the case, make sure that the cables are not stuck between the case and the GOT.

(3) GT16-70VLTTA

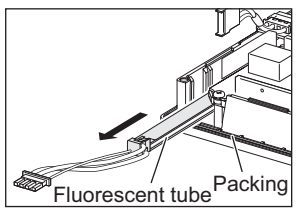
1) Remove the backlight cable connector from the relay cable connector. Since the connected connectors adhere inside the GOT, detach the connected connectors and perform the removal. (Expanded figure of part A in 3.1 4))



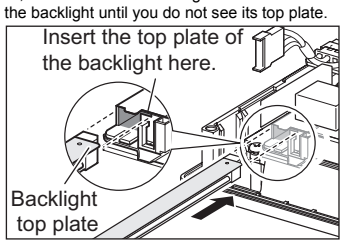
2) Remove the backlight cables from the cable holder by pulling the backlight cables one by one in the arrow Ⅰ direction and then in the arrow Ⅱ direction.



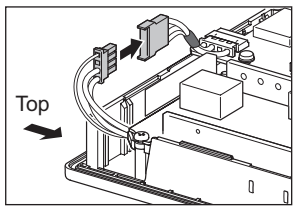
3) Pull out the backlight so that the backlight does not hit the packing.



4) Install a new backlight so that its top plate is inserted between the metal parts of the backlight replacement hole. When inserting a new backlight into the backlight replacement hole of the GOT, make sure not to damage the sheaths of the cables.
   Insert the backlight until you do not see its top plate.



5) Connect the backlight cable connector to the relay cable connector. Do not put the cables of the backlight back to the cable holder.Assemble the case in the reverse procedure of disassembly. (Tighten the fixing screws on the GOT rear face with a torque of 0.36 to 0.48 N•m).
   When installing the case, make sure that the cables are not stuck between the case and the GOT.



Warranty

Mitsubishi will not be held liable for damage caused by factors found not to be the cause of Mitsubishi; machine damage or lost profits caused by faults in the Mitsubishi products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi; damages to products other than Mitsubishi products; and to other duties.

⚠For safe use

- This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- Before using the product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi.
- This product has been manufactured under strict quality control. However, when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

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Specifications subject to change without notice.
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